



STATE OF TENNESSEE  
Department of Commerce and Insurance  
BOARD OF EXAMINERS FOR LAND SURVEYORS  
500 James Robertson Parkway, 3rd Floor  
Nashville, TN 37243-1146  
615-741-3611  
Fax: 615-532-9410  
[www.state.tn.us/commerce/boards/surveyors/index](http://www.state.tn.us/commerce/boards/surveyors/index)

TCA 62-18-109  
Category A, B, C Educational Courses

In order to assist applicants with the process of obtaining the educational surveying requirements toward the application process for the state of Tennessee, the attached pre-approved lists are offered for your convenience.

This list is preliminary and will be under continuous revision as the Board receives appropriate information. The Administrative Director of the Board and the Department website personnel will be responsible for the website update.

If an individual is applying for licensure and has already obtained their four year baccalaureate degree in Land Surveying (**Category A**), then the individual will have already taken all required courses and the attached listings will not apply to them.

An individual applying under **Category B** will be required to submit 24 semester hours of courses relating directly to surveying. Acceptable courses may have been taken while pursuing your four year degree or you may need to select courses from List I or II. A minimum of 18 hours must be equivalent to courses shown in List I and the remainder from List II or III.

An individual applying under **Category C** will be required to submit 36 hours of courses relating directly to surveying. Acceptable courses may have been taken while pursuing your four year degree or you may need to select a total of 36 hours from List I, II, or III. A minimum of 18 hours must be equivalent to courses shown in List I, six hours from List II and the remaining 12 hours from List I, II or III.

An additional list attached are the institutions where the board has pre-approved courses relating to surveying: East Tennessee State University, Johnson City, TN; Pellissippi State Community College, Knoxville, TN; Austin Peay State University, Clarksville, TN; Columbia State Community College, Columbia, TN; University of Tennessee – Martin, Martin, TN; University of Memphis, Memphis, TN; Murray State University, Murray, KY; Nashville State Community College, Nashville, TN; Jackson State Community College, Jackson, TN; Southwest Tennessee Community College, Jackson, TN; Chattanooga State Community College, Chattanooga, TN; Louisiana Technical College.

# **SURVEYING AND GEOMETRICS**

***THIS LIST IS SUBJECT TO CHANGE***

(Revised August 9, 2006)

## **(I) A Minimum of 18 Hours\***

Advanced Surveying Principles  
Control Surveys  
Land Boundary/Real Estate Law  
Land Subdivision and Mapping  
Positioning with GPS  
Land Surveys  
Land Survey Systems  
Survey Measurement and Analysis  
Survey Projects  
Hydrographic Surveying  
Mine Surveying  
Map Projections and State Planes  
Cartographic Mathematics  
Geodetic Science  
Cartography (Level 300 or above)  
Surveying and Lab (Level 300 or above)  
Site Planning & Development  
Road Design/Route Survey  
Legal Aspects of Surveying

\*The Board recommends that these courses be 300 and 400 level courses.

## **(II) A Minimum of 6 Hours**

Digital Image & Base Maps	Plane Surveying
Automated Surveying & Mapping (CAD)	
Hydrology	
Photogrammetry	
Surveying Measurement Fundamentals	
Advanced Surveying Math	
Engineering and Construction Surveys	
Construction Surveys	
Field Mapping	
Surveying I and II	
Cartography I and II	
Hydraulics and Water Systems	
Dendrology	
Remote Sensing	
Advanced GIS	
Advanced AutoCAD & Civil Drawing	

## **(III) Engineering CAD Drawing**

Computer Programming  
Surveying Graphics  
Technical Communication  
Soil and Water Engineering/Earth Science  
Professional Ethics  
Resource Management/GIS  
Statistics  
Trigonometry  
Calculus  
Geometry  
Physics  
Cost Estimating  
Physical Geography  
College Algebra

# PRE-APPROVED EDUCATION HOURS FOR APPLICATION

*THIS LIST IS SUBJECT TO CHANGE*

SUBJECT/COURSE/COURSE TITLE	HOURS	INSTITUTION
SURV 2038 Honors Professional Ethics	3	East Tennessee State University
SURV 2550 Surveying Measurement Fundamentals	4	East Tennessee State University
SURV 2560 Surveying Graphics	4	East Tennessee State University
SURV 3030 Technical Communications	3	East Tennessee State University
SURV 3048 Honor Methods of Research	3	East Tennessee State University
SURV 3510 Engineering and Construction Surveys	4	East Tennessee State University
SURV 3520 Land Survey Systems	2	East Tennessee State University
SURV 3530 Survey Measurement and Computational Analysis	4	East Tennessee State University
SURV 3540 Surveying Projects	3	East Tennessee State University
SURV 3550 Advanced Surveying Mathematics	3	East Tennessee State University
SURV 3560 Geodetic Science	4	East Tennessee State University
SURV 4517/5517 Photogrammetry	4	East Tennessee State University
SURV 4520 Survey Science Topics	3	East Tennessee State University
SURV 4537/5537 Land Boundary Location	4	East Tennessee State University
SURV4547/5547 Land Subdivision and Platting	4	East Tennessee State University
SURV 4550 Automated Surveying and Mapping	3	East Tennessee State University
SURV 4567/5567 Positioning with GPS	3	East Tennessee State University
SURV 4617/5617 Digital Imagery Processing	3	East Tennessee State University
AgEt 220 Plane Surveying and Soil Water System	3	University of Tennessee @ Martin
PLSC 341 Dendrology & Forest Ecology	3	University of Tennessee @ Martin
ENGR 350 Construction Survey	3	University of Tennessee @ Martin
AGET 482 Precision Tech Ag&NRM GIS/GPS	3	University of Tennessee @ Martin
GEOG 310 Principles of GIS	3	University of Tennessee @ Martin
GEOG 364 Introduction to Remote Sensing	3	University of Tennessee @ Martin
GEOG 410 Geographic Information Systems: Database Design & Modeling	3	University of Tennessee @ Martin
IET 101-02 Intro to CAD	3	Jackson State Community College
GSC 305 Map Analysis	3	Murray State University
GSC 522 Cartography II	3	Murray State University
GEOG 310 Principles of GIS	3	Murray State University

GEOG 364 Intro to Remote Sensing	3	Murray State University
GEOG 410 GIS: Modeling & Applications	3	Murray State University
GEOG 471 Cartography	3	Murray State University
CET 370 Intermediate Surveying	3	Murray State University
IET 571 Problems in Industrial and Engineer Technology	3	Murray State University
ET 486 Boundary Surveying II	3	Murray State University
IET 380 Professional Internship	3	Murray State University
ENG 352 Transportation Engineering	3	Murray State University
CCET 1010101 Surveying I and Lab	4	Southwest Tennessee Community College
MATH 1740101 Algebra and Trig I	3	Southwest Tennessee Community College
MEET 1210101 CAD Design I and Lab	4	Southwest Tennessee Community College
CCET 1134151 Civil Drafting and Lab	4	Southwest Tennessee Community College
CCET 2020151 Surveying II and Lab	4	Southwest Tennessee Community College
GEOG 1101 Intro Earth SC W/C	4	University of Memphis
MATH 1211 College Algebra	3	University of Memphis
MATH 1312 Elementary Calculus	3	University of Memphis
MAT 113 College Trigonometry	3	Columbia State Community College
ERG 101 Engineering Graphics	3	Columbia State Community College
PHY 211 Physics I	4	Columbia State Community College
PHY 255 Engineering Statics	3	Columbia State Community College
PHY 212 Physics II	4	Columbia State Community College
CEE 392 001 Surveying	3	Tennessee Technological University
GEOL 321 001 Geology for Engineers	3	Tennessee Technological University
CEE 492 001 Professionalism and Ethics	1	Tennessee Technological University
IME 310 001 Engineering Economy	3	Tennessee Technological University
CEE4640001 Highway Engineering	3	Tennessee Technological University
IME 3200001 Engineering Statistics	3	Tennessee Technological University
BE 1110-003 Engineering Graphics	2	Tennessee Technological University
BE 1210-103 Intro to Engineering	1	Tennessee Technological University
MATH 1730-005 Pre-Calculus Math	5	Tennessee Technological University
MATH 1720-23 Trigonometry	3	Austin Peay State University
GEOG 3920 Field Mapping and the Global Positioning System	3	Austin Peay State University
GEOG 3250 Geographic Information Systems	3	Austin Peay State University
GEOG 4160 Modeling Dynamic Systems and GIS	?	Austin Peay State University
GEOG 4270 Watershed Management	4	Austin Peay State University
PHYS 2010 College Physics	5	Austin Peay State University
GEOG 1010 Physical Geography	3	Austin Peay State University
GEOG 3150 Maps and Their Interpretation	3	Austin Peay State University
MATH 1910-101 Calculus and Anal Geom	4	Nashville State Community College

PHYS 2010-103 Non-Calc Based Physics	4	Nashville State Community College
CAD 1200-100 Computed Aided Drafting	3	Nashville State Community College
CIT 2130 Surveying I	3	Nashville State Community College
CIT 2310 Surveying II	3	Nashville State Community College
CIT 2301 Hydrology and Site Design	3	Nashville State Community College
CIT 2200 Hydraulics & Water Systems	4	Nashville State Community College
CIVL 1110 Civil Math I	3	Louisiana Technical College
CIVL 1120 Surveying I Lecture	3	Louisiana Technical College
CIVL 1121 Surveying I Lab	1	Louisiana Technical College
CIVL 1210 Civil Math II	3	Louisiana Technical College
CIVL 1220 Surveying II Lecture	3	Louisiana Technical College
CIVL 1221 Surveying II Lab	1	Louisiana Technical College
CIVL 1320 Surveying III Lecture	3	Louisiana Technical College
CIVL 1321 Surveying III Lab	1	Louisiana Technical College
CIVL 1340 Soil Mechanics Lecture	2	Louisiana Technical College
CIVL 1341 Soil Mechanics Lab	1	Louisiana Technical College
CIVL 1410 Surveying IV Lecture	2	Louisiana Technical College
CIVL 1411 Surveying IV Lab	1	Louisiana Technical College
CIVL 1420 Map Study	2	Louisiana Technical College
CIVL 1430 Legal Principles of Surveying	3	Louisiana Technical College
CIVL 1441 Computer Aided Drafting	2	Louisiana Technical College
CIVL 2511 Surveying Technical Practice I	2	Louisiana Technical College
CPTR 1000 Introduction to Computers	2	Louisiana Technical College
CIVL 2530 Applied Surveying Mathematics	3	Louisiana Technical College
CIVL 2551 Computer Software (Surveying Applications)	2	Louisiana Technical College
CIVL 2611 Surveying Technical Practice II	2	Louisiana Technical College
CIVL 2620 U.S. Public Land Surveys	3	Louisiana Technical College
CIVL 2630 Highway Plan Reading	2	Louisiana Technical College
SPCH 1015 Introduction to Public Speaking	3	Louisiana Technical College
CIVL 2991 Special Projects I (Surveying Only)	1	Louisiana Technical College
CIVL 2993 Special Projects II (Surveying Only)	2	Louisiana Technical College
CIVL 2995 Special Projects III (Surveying Only)	3	Louisiana Technical College
CIVL 2996 Special Projects IV (Surveying Only)	3	Louisiana Technical College